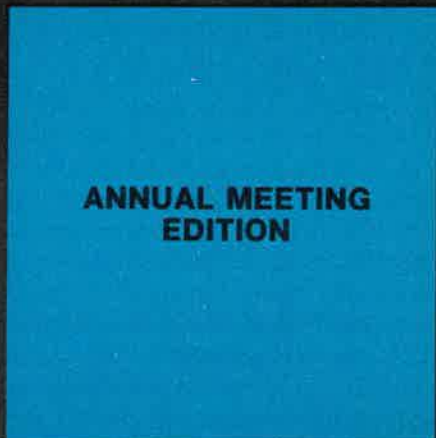
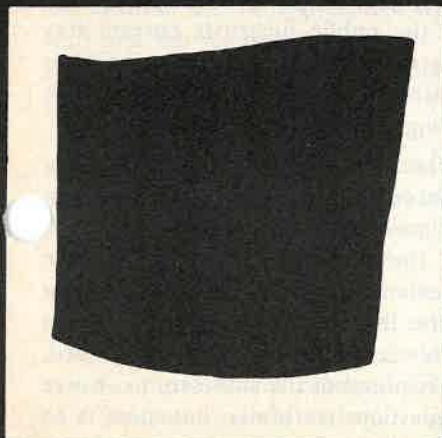
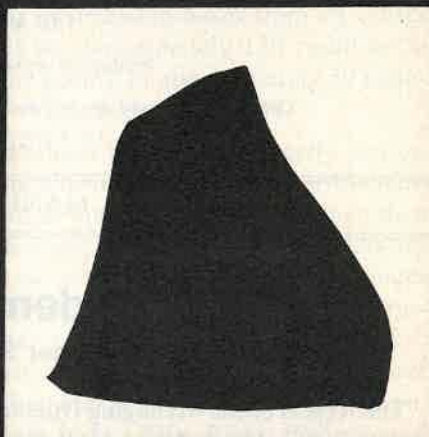


# Bulletin

November

80

*The  
Manitoba  
Professional  
Engineer*



Published by the Association of Professional Engineers of the Province of Manitoba  
640-175 Hargrave Street, Winnipeg, Manitoba R3C 3R8

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*Opinions expressed are not necessarily those held by the A.P.E.M. or  
the Council of the A.P.E.M.*

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WINNIPEG, MANITOBA, NOVEMBER 1980

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## President's Message

By Walter Saltzberg, P. Eng.

The Report of the Managing Director and Registrar, Mr. T.W. Algeo, P. Eng., deals with the major details of the past year's activity and I feel, therefore, that I can forgo the traditional reporting by the President in this area.

From a personal point of view while the year has been extremely hectic it was nevertheless most enjoyable. I thank you for the honor given me in allowing me to represent the Engineering Profession of Manitoba. It is with great pleasure that I take this opportunity to profoundly thank the staff of the Association of Professional Engineers for the assistance afforded me during the year without which no president could perform his functions.

In one of the previous issues I have dealt with the meaning of the word "professional" and how the public perceives those who claim to be professionals. I think that one of the major reasons why the public mistrusts current day professionals is because the public has so often been misinformed that it can no longer believe even its professionals.

It seems to me that the adversary system used in the judicial process, as right as it may be for that purpose, has crept into the daily dealings between the professionals, their clients and the public. In the courtroom, to protect the rights of those charged or being sued, it is required of the witnesses to answer all questions truthfully, but there is no

requirement of the witnesses to tell all that they know. An adversary system has no place in the daily dealings between the professional, the client and the public. I would classify such a procedure outside of the judicial system arena to be dishonest communication.

My definition of dishonest communication is when we say only what we are obligated to say without crossing that dividing line into the untruth. Honest communication is when we disclose all of the facts even though we are not obliged to do so. The public's faith in professionals will only be restored if we practise the latter.

## Report of the Managing Director & Registrar

On September 12, 1980 the Association's address became 640 - 175 Hargrave St., Winnipeg, Man. R3C 3R8 and the staff arrived along with the movers at the new premises. As the telephone number had not changed it was almost business as usual but with subtle background noises from skillsaws, hammers and vacuum cleaners. After 13 years in the old premises, the new pleasant location will be appreciated by the staff and the many members who visit or hold meetings in the Association office. The Manitoba Association of Architects had decided to obtain new premises separate from the APEM which would have left the APEM to pay the entire rent (which we were required to do for August and September). The base rate increase per year for the new premises on a five-year lease will amount to \$5180. Leasehold improvements and new furniture where required will be paid for from reserves and the reserves

will be built up again over the next few years.

We expect our membership to stand at approximately 2620 at the end of the fiscal year. Because of the diversity of Manitoba industry, it was able to absorb a good number of engineers during 1980 and the outlook for 1981 appears promising. We presently have 237 members in the non-practising category, 90 Engineering Graduates and have issued 121 licenses since December 1979. Registrations, Transfers and Reinstatements for the fiscal year totaled 180. Our membership losses from all causes will be approximately 130 resulting in a net growth of approximately 50 members or a modest 2 percent.

Perhaps because of Council's continuing efforts to keep in touch with members at engineering centres other than Winnipeg, registration of engineers residing in northern Manitoba continues to grow. During the last year, the President and representatives of Council, staff and the Bulletin Committee have visited and held meetings at Thompson, Lynn Lake, Flin Flon, Pinawa and Brandon. I wish to thank those out-of-Winnipeg members who helped arrange for these meetings and promise the engineers at Gillam that we will make it for sure on the third attempt. We are also gratified at the increase in registration by members of the Canadian Armed Forces.

At and following the 1979 Annual General Meeting the members approved and ratified the amendment to By-law 32-2(a) which increased the Annual Fee ceiling to \$100. This amendment was timely as the Association had an operating deficit for 1979 of \$5655. and expects a higher operating deficit for 1980.

Because of these deficits, the high rate of inflation and the drop in our reserves, our members can expect an increase in the 1981 membership fees. The same by-law amendment raised the penalty for late payment of fees, so please attend to your 1981 invoices promptly and avoid the penalty.

At times our Association seems to proceed slowly but remember that with our limited membership and small staff (ranging from four to five) we are charged with the administration of an Act similar to that of Quebec, Ontario, Alberta and British Columbia where the membership resources are much greater. The smaller Associations must run that much faster and are more dependent on the voluntary efforts of our Council and Committee members.

The month-to-month activities of the Association have been well reported by President Saltzberg and the Bulletin Committee, but the following few items may be of interest to members.

The Association of Professional Engineers of the Province of Ontario, which used to publish its material in the "Engineering Digest" now has its own publication entitled "Dimensions". The Canadian Council of Professional Engineers, which has long had the problem of communicating directly with Canadian Engineers, is now printing the C.C.P.E. National Newsletter in the "Engineering Digest" so at last all Canadian engineers should become aware of the activities of our national organization.

The Canadian Accreditation Board has recommended that the list of accredited overseas universities be discontinued and used only for reference

purposes by the constituent associations. This of course will mean a greater number of referrals to our hard-working Board of Examiners and probably more confirmatory examinations for candidates to write. We presently charge a candidate \$100. for an assessment plus an administrative fee and exam fee if the candidate pursues the examination program. Very few candidates assigned more than eight exams ever complete the program. Most applicants assigned four or less are usually successful and become eligible for registration.

The Faculty of Engineering at the University of Manitoba plans to introduce, as soon as possible, two new engineering programs. Industrial Engineering will be offered by the Mechanical Engineering Department and Computer Engineering by the Electrical Engineering Department. These courses will be offered due to a positive demand by Manitoba industry for Engineering Graduates trained in these disciplines.

All members of the Engineering Profession were aware of the funding problems faced by the Engineering Faculty at the University of Manitoba, and we could only be gratified when we learned of the direct financial assistance being extended by the present Government of Manitoba to the Faculty. The Premier and the Government are to be congratulated along with the many groups and individuals (including many non-engineering friends of the profession) who were instrumental in changing a possibility to a reality.

I extend my thanks to the ladies of our staff, Loreen, Monica and Joan for keeping up to the increasing workload, and to the President and members of

Council, and the members of our Committees and Boards whose hours of volunteer effort have enabled our "small" Association to meet its obligations.

Respectfully submitted,  
T.W. Algeo, P. Eng.

## Legislation

1980 I believe will be remembered by Committee members as a period during which much was required in terms of meetings, discussion and decisions but with very little to show in terms of final accomplishments. The Committee met seven times during the period January 1, 1980 to September 30, 1980.

The major task of the Committee continues to be the review of the Engineering Profession Act and By-Laws and drawing up of a complete amendment roster for the former as well as noting the corresponding By-Law changes.

A preliminary review of both the Act and By-Laws was carried out in 1979 and final changes to the Act were "crystallized" during meetings in the first half of 1980. The committee adopted a Final Draft of Proposed Changes to the Act at a meeting on June 10, 1980 which the Chairman recommended to Council on July 14, 1980.

Initially the Committee looked to a general rewriting of the Act with consideration given to a broad range of items including the following; Format definition of the "practice of professional engineering", laymen on Council, separate class of membership for non-resident members, and also for Certified Engineering Technologists, Corporate Practice, impression on the seal, disciplinary powers of Council over licencees and financial support of the CCPE.

In the final analysis, many of the foregoing were judged to exceed the terms of reference of the Committee. The final proposed changes to the Act can generally be considered to be "essential housekeeping changes" and include; adding to the branches of the science of engineering listed in the definitions, allowing for the appointment of two (2) laymen to Council, removal of Clause 15 which disallows corporate practice, changes to disciplinary regulations by bringing licencees under the same regulations as registered members, and changing the impression on the seal.

The Committee is continuing its final review of the By-Laws with the goal of completing the work during 1980.

The Council forwarded directives to the Committee during the course of the year on the subjects of financial support of the CCPE, corporate practice, and the proposed act respecting the Association of Interior Designers of Manitoba, all of which required some attention and action.

During 1980, the Committee functioned without the replacement of members who resigned in 1979 but were fortunate to have former member F.A. Jost continue on as a liaison councillor. My sincere thanks to F.A. Jost, Committee Members G.R. Durnin, J.S. Hicks, E.C. Sherwin and C.P. Wright.

The Committee is indebted to J.W.J. Lewis, Liaison Councillor, and T.W. Algeo for their insights and guidance and to L. Dunklee for insights, guidance and also all secretarial duties.

Respectfully submitted  
E.E. Lach, P. Eng.  
Chairman

## Safety in Engineering Practice

The following members served on the Safety Committee this year: G.W. Simonson (Chairman), T.W. Strang (Vice-Chairman), T.A. Crosier, R.A. Stewart, J.O. Klein, G.A. Morris, R.C. Wolowidnyk, J.W. Tuck, R.G. Britton, L.A. O'Morrow, D.L.T. Oakes, and H. Penner.

Items considered by the Committee included:

- (a) Design live loads for arenas having fixed seats with backs. The Manitoba Building Code appears to permit a live load of 50 psf, although this is by no means clear. The Committee decided to recommend to the Building Standards Board that arena live load requirements be clarified at 100 psf, regardless of the type of seating used.
- (b) Allowable loads on various types of bolts set into existing concrete structural elements. The Chairman has referred this item for review to the CSA Committee on the Design of Reinforced Concrete.
- (c) Responsibility for the design of anchorage details for wall claddings.
- (d) Guidelines to Standards of Practice for the use of Computer Programs in Engineering.

Concern was expressed that non-engineers have access to computer software and hardware that will provide engineering information and drawings. A further concern was that new engineering graduates with little **practical experience** would have difficulty in recognizing if a program is suitable for use.

The Committee recommended to Council that all engineering graduates be provided with a copy of the A.P.E.O. publication entitled "Guidelines to Standards of Practice for the Use of Computer Programs in Engineering".

The Committee also recommended that MANSCETT be advised of the Committee recommendation with the suggestion that technology graduates be supplied with the same booklet by MANSCETT.

- (e) Arched Corrugated Steel Building Fixtures:

The Committee's concerns regarding the dubious structural integrity of some metal buildings being sold and erected on Manitoba farms were communicated to the Deputy Minister of Agriculture.

In closing I would like to take this opportunity of thanking Committee members for their assistance with safety committee work this past year, and express the hope that that they will be able to find time for an even greater effort next year in this important area of concern to the Association.

Respectfully submitted  
G.W. Simonson  
Chairman

## Membership

Again the Membership Committee organized the Annual Fourth Year Engineering Students Dinner held at the Montcalm Motor Hotel last November. It was well attended with a near record attendance of 210 people. Last year's guest speaker was R. McDowall, P. Eng., Manager of Physical Plant Services at the University of Manitoba.

Arrangements have now been finalized for the 1980 dinner to be held at the Assiniboine Gordon Inn on the Park on Thursday, November 6th, with guest speaker L.L. Bryson, P. Eng., General Manager and Vice-President, Boeing of Canada Ltd. It is anticipated that this year's attendance will be the best ever.

This year an addendum to the 1979 roster was printed giving Mrs. Monica MacWilliam a break from the time-consuming routine of publishing a full membership roster. However, a complete roster will be printed in 1981 to update the roster.

The first annual Careers Day was held at the University of Winnipeg in May. The writer, G. Swift, P. Eng., and Mrs. M. MacWilliam were on hand for the two day event to answer questions and hand out literature pertaining to the engineering profession. A new brochure on the different careers in engineering entitled "Engineering a Creative Profession" was handed out on behalf of the APEM.

Farewell and good luck to Committee members Frank Chan and Oliver Foulkes who transferred out of province during the year. Hello to new member A. De Luca. My thanks to Committee members Mike Hammond, Tony Eshmade and Gren Yuill. Special thanks to Monica MacWilliam of the APEM staff for keeping the committee running smoothly.

**Quotable Quote:**

Beer is like Sex. The worst you've ever had was excellent!

Respectfully submitted:  
C.C. Whalen, P. Eng.  
Chairman.

## Awards

The Awards Committee was particularly active in 1980, having met on six occasions, primarily to consider and review the credentials of possible candidates for the Association's Outstanding Service Award, Merit Award and Life Membership (Honouris Causa) as well as the Canada Northlands Development Award and the CCPE Canadian Engineers' Award. Recommendations were submitted to Council regarding proposed recipients to these awards.

The Awards Committee considered in depth, and recommended for Council's consideration, revisions to the Terms of Reference or Guidelines for the following Awards:

- (a) Outstanding Service,
- (b) Merit, and
- (c) Life Membership (Honouris Causa).

The Terms of Reference for the Awards Committee were also reviewed and recommendations were submitted to Council. The advisability of introducing an additional award, to be known as the "Certificate of Engineering Achievement", was also considered at some length.

I wish to thank Monica S. MacWilliam for her excellent and considerable help and support to the Awards Committee in 1980, and to thank the Past Presidents who were members of this Committee, each of whom actively supported this Committee's activities: George A. De Pauw, P. Eng., Edward F. Glass, P. Eng., Douglas R. Grimes, P. Eng., Richard A. Johnson, P. Eng., and Clyde R. McBain, P. Eng.

Respectfully submitted,  
C.R. Bouskill, P. Eng.

## **MANSCETT/APEM Liaison Committee**

The purpose of this Committee is to provide an informal forum for the consideration of matters of mutual interest and concern to the Association of Professional Engineers of the Province of Manitoba and the Manitoba Society of Certified Engineering Technicians & Technologists, Inc. This Liaison Committee has continued to act in this capacity in 1980, having met on two occasions during the year.

The matter which has been of prime concern in recent years has been the role and recognition of the Engineering Technologists. This subject was one item discussed briefly at a Special Meet-

ing of the APEM General Membership in late April, 1980.

During the year the Committee prepared a position statement regarding the recognition of the Engineering Technologist for presentation to the APEM Council.

I wish to thank Terence W. Algeo, P. Eng., John W.J. Lewis, P. Eng., Robert F. Manning, P. Eng. and Harold Wilson, P. Eng. for their active support and participation as members of this Committee during 1980.

Respectfully submitted,  
C.R. Bouskill, P. Eng.

## **Practice and Ethics**

Since the last Annual Meeting in November 1979, the Practice and Ethics Committee has met on twelve occasions in the performance of its function.

All of these meetings have involved one or more of three large projects for which complaints have been received. These are:

1. Nelson - Churchill River System Hydro Inquiry.
2. Winnipeg Arena Expansion.
3. Bishop Grandin Boulevard.

The Committee felt that the membership should be advised that obtaining proper documents and information in order to make its assessments is extremely time consuming and difficult. The obstructions and legal requirements when obtaining information from various organizations necessitate many letters and phone calls. Some of the staff tactics are almost unique.

Special commendation goes to the only salaried member of our Committee, Terry Algeo, our Association Managing Director and Registrar, who acts as our secretary. Without his assistance we would have a most difficult time. Every member of the Committee now has a full filing cabinet drawer of documents on these three projects alone.

On a recent up-date of the status of each investigation it was noted that one entered the system in December 1978, another in November 1979 and the third in May 1980. While considerable progress has been made, it has been necessary to retain the services of a Solicitor and a Consulting Engineer, and to give one member of our Committee a special assignment to concentrate on one project. We are hopeful that the next month or two will bring to conclusion one or more of these investigations.

Meanwhile, we remind everyone that there is a special group actively studying the Code of Ethics in an effort to make it easier to interpret. The writer wishes to thank all members of the Committee for their dedicated contribution.

Respectfully submitted  
V.S. Buckler, P. Eng.  
Chairman

## Social

About 200 Engineers, wives and friends attended the 1980 Spring Dance – Oktoberfest in March. Although the numbers were fewer than other years, this did not lessen the good time that is normally had, at these dances. The Committee is starting to gear up for the planning of next year's spring dance which is to be held at the International Inn on Saturday, March 28, 1981. We hope to see a bigger crowd.

Thanks are hereby extended to Committee members George Pratt, Barry Rowley, Rick Hay and Gerald Arksey, and also Monica MacWilliam of the APEM staff.

Respectfully submitted,  
Bill Sullivan, P. Eng.  
Chairman

## Sports

The sports program for the year started with the Annual Curling Bonspiel which was held on January 9th, 1980 at the Highlander and Granite Curling Clubs. Thirty-two rinks competed for the President's Cup which was presented by Association President Walter Saltzberg to a rink comprised of Bill Mackenzie, Bill Saunders, Larry Williams and Hank Penner.

The Annual Golf Tournament was held on May 26th, 1980 at Elmhurst

Golf and Country Club with a turnout of 140 on a warm, sunny day. The Landon Cup for the low gross score was won by Lorne Holden and the Sullivan Cup for low net by Don Kilgour. Numerous other prizes were presented at the termination of an enjoyable day.

In conjunction with the Manitoba Marathon held in June, a challenge was issued to all other groups or associations. John Lewis recruited and organized a large number of Engineers to take part in this event on an individual and team basis. Due to computer difficulties at the Marathon office, the final results of our challenge are not as yet known but will be published as soon as available.

The success of the Bonspiel and Golf Tournament is primarily due to the hard work of the committee members namely – Landis Krause, Vic Becker, Sandy Gibb, Alf Cornies and Arnold Permut. I would like to take this opportunity to acknowledge and thank them for their contribution throughout the past year.

Respectfully submitted,  
A.W. Bischoff  
Chairman, Sports Committee

## The Bulletin

The fact you are reading this is clear evidence of our existence and speaks of the efforts put forward by the members of this Association whose names appear on the masthead. Generally speaking the year has been a very rewarding one for us in the highest sense of the word. The gains individually achieved have been in the knowledge that this unique publication has retained its quality, and each article put forward by each member of this group has been done honestly, willingly and with no solicitation of commercial gain.

We have found ourselves from time to time in what appeared to be a minority position, yet all sides of every area of contention were not simply published but sought after.

The enjoyment of being on this committee this year personally has never been greater and I can only say that it is because of the quality of people that sit around the room in our meetings.

It is my hope that the readers of this publication enjoy seeing their Bulletin arrive in the mail as much as we enjoy putting it into the mail.

Respectfully submitted,  
Roger A. Kane, P. Eng.  
Editor

## Board of Examiners

During the 1980 term, the following served on the Board of Examiners: K.M. Adam, D.T. Anderson, A. Baracos, C. Booy, E.A. Bridges, M.G. Britton, J.R. Cahoon, J.M. Dobrovolny, L. Domaschuk, O. Hawaleshka, F.R. Kaita, R.W. Menzies, M.P. Musick, O.C. Norris-Elye, W.L. Pawlikewich, M.Z. Tarnawecky and A.B. Thornton-Trump, with C.D. Anderson and J.D. Wiebe as consultants.

Regretfully, the Board accepted resignations from long-time members Dr. Thornton-Trump and Professor Tarnawecky, also from Myron Musick after many years of outstanding service as chairman.

During the year, the Board met four times to evaluate the credentials of 39 applicants. This compares with 45 in 1978 and 60 in 1979.

In addition, at the request of Council, the Board advanced opinions on 11 ap-

plicants for Council decision. It recommended time extensions to examination programs for two applicants, reviewed four appeals, finding cause to revise three earlier recommendations, investigated one irregularity and reviewed two previous assessments.

During the year, 19 applicants applied to write 31 examinations. Thirteen applicants wrote 19 papers, achieving 14 passes and 5 failures, representing a 74% success rate.

The Board of Examiners sponsored two meetings of specific disciplines to interview one applicant and to assess the credentials of another. Individual Board members commented on Canadian Council of Professional Engineers draft documents concerning the academic assessment and registration of foreign graduates and proposed Immigration Department involvement; also the Admission Standards Committee Draft Report. Later, the Board discussed these documents with Professor R.A. Johnson in his capacity as Manitoba's CCPE delegate.

The Board can only echo Myron Musick's sentiments in his 1979 annual report in gratefully acknowledging the participation of Managing Director and Registrar T.W. Algeo, the invaluable role of Secretary by Mrs. J. McKinley and her effective handling of the Board's affairs between meetings.

Each member of the Board deserves commendation in fulfilling his or her obligation to the public, profession and applicants in the maintenance of high engineering standards in the Province.

Respectfully submitted,  
O.C. Norris-Elye, P. Eng.,  
Chairman.

## P. Eng.'s - Please Take This Home To Your Wives!!

**Calling all wives** - Here is our program for 1980-81.  
We'd love to have you join us.

### PROFESSIONAL ENGINEERS' WIVES ASSOCIATION OF MANITOBA

#### Program for 1980-81

- Nov. 25/80 Luncheon - Birchwood Inn,  
Speaker - Marg Soper  
Topic - Consumerism
- Jan. 27/81 Dinner - Fort Garry Hotel  
Speaker - Dolores Jardine  
Topic - Tanzania
- Feb. 24/81 Luncheon - Holiday Inn,  
Speaker - Professor Terence P. Day  
Topic - Religious Dimensions of  
World Affairs
- Mar. 24/81 Dinner and Show for Big and Little  
Sisters,  
Hollow Mug, International Inn
- Apr. 28/81 Luncheon - Carlton Club,  
Annual Meeting  
Surprise Speaker
- June 1/81 Golf, Tennis and Bridge  
Luncheon

Lunch tickets 12:15 p.m.	Lunch 1:00 p.m.	Dinner tickets 6:15 p.m.	Dinner 7:00 p.m.
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For further information, please contact one of the following -

#### Executive 1980-81

- PRESIDENT ..... Mrs. J.W. Doreen Steeves ..... 837-5395
- 1ST VICE
- PRESIDENT ..... Mrs. R.J. Myrna McRae ..... 669-3796
- 2ND VICE
- PRESIDENT ..... Mrs. H.C. Ritta Moulding ..... 269-8054
- PAST PRESIDENT ..... Mrs. B.M. Elaine Long ..... 489-2988
- SECRETARY ..... Mrs. D.A. Roslyn Farlinger ..... 256-5473
- TREASURER ..... Mrs. K.J. Beryl Fallis ..... 489-9576
- MEMBERSHIP ..... Mrs. D.E. Lorraine Saramaga ..... 253-0764
- SOCIAL ..... Mrs. J. Darcia Clingingsmith ..... 888-0443
- PROGRAMME ..... Mrs. J.W. Giselle Lewis ..... 269-1611
- PROJECTS ..... Mrs. R.A. Elaine Johnson ..... 452-7312
- EVENING GROUPS .... Mrs. W.P. Anne Steadman ..... 475-2385
- TELEPHONING ..... Mrs. W.R. Margaret McKay ..... 837-4577
- COUNCILLORS ..... Mrs. R.C. Joan Sommerville ..... 832-4578
- Mrs. D.C. Helen Brooking ..... 888-0603

# SIXTY-FIRST ANNUAL GENERAL MEETING

**Friday, November 21, 1980**

**Holiday Inn.**

## PROGRAMME

- 8:30 a.m.      Registration
- 9:00 a.m.      Official Opening by President  
Announcement of Early Bird Draws  
Introduction of Head Table  
Minutes of Annual Meeting of November 23, 1980  
Minutes of Special Meeting of April 30, 1980  
Minutes of General Meeting of April 30, 1980  
Declaration of Councillors Elected  
Reports  
Auditor's Report and Appointment of Auditors  
Draft Budget  
Nominating Committee Appointments  
Resolutions  
Salary Recommendations for 1981  
Other Business  
Greetings from C.C.P.E. and Other Associations
- 11:30 a.m.      Reception
- 12:00            Luncheon  
Introduction of Head Table  
Presentation of Award  
Declaration of Officers Elected  
Guest Speaker — H. Allan Leal, Q.C. Deputy Attorney  
General, Province of Ontario — On-  
tario Professional Organizations  
Committee Study and Report
- (If all the business is not completed at the morning ses-  
sion it will be considered in the afternoon.)
- The Gavel Ceremony and the Presentation of the President's  
Certificate will take place at the dinner.*
- 6:00 p.m. to  
1:00 a.m.      Reception, Dinner, Dance

Bring this Programme to the Meeting